## Amendments to the Claims:

This listing of claims will replace all prior versions and listing of claims in the application:

## **Listing of Claims:**

(Withdrawn) An apparatus for control of a fluid flow, comprising: 1. 1 2 measuring means for measuring a pump performance parameter; and controller means for adjusting a fluid flow in response to the pump performance 3 4 parameter. (Withdrawn) The apparatus of claim 1 wherein the measuring means comprises at least 1 2. one sensor for measuring at least one of a pump speed, voltage, electric current, and 2 3 electric power. (Withdrawn) The apparatus of claim 1 wherein the measuring means comprises at least 3. 1 one of a voltage sensor, an electric current sensor, an electric power sensor, and a multi-2 3 component sensor. (Withdrawn) The apparatus of claim 1 wherein the controller means comprises a process 1 4. control computer for adjusting operation of at least one of a flow-control means and a 2 3 pump. (Withdrawn) The apparatus of claim 4 wherein the flow-control means comprises at least 1 5. one of a valve, a pneumatic actuator, an electric actuator, a hydraulic actuator, and a 2 3 micro-electric actuator. (Withdrawn) The apparatus of claim 4 wherein the pump comprises a centrifugal pump. 6. 1 (Withdrawn) An apparatus for control of a fluid flow, comprising: 1 7. 2 measuring means for measuring a pump performance parameter; means for comparing a measured pump performance parameter to a predetermined 3 target pump performance parameter; and 4 controller means for adjusting a fluid flow in response to a difference in the 5

2		parameter.
1	8.	(Withdrawn) The apparatus of claim 7 wherein the measuring means comprises at least
2		one sensor for measuring at least one of a pump speed, voltage, electric current, and
3		electric power.
1	9.	(Withdrawn) The apparatus of claim 7 wherein the measuring means comprises at least
2		one of a voltage sensor, an electric current sensor, an electric power sensor, and a multi-
3		component sensor.
1	10.	(Withdrawn) The apparatus of claim 7 wherein the controller means comprises a process
2		control computer for adjusting operation of at least one of a flow-control means and a
3		pump.
1	11.	(Withdrawn) The apparatus of claim 10 wherein the flow-control means comprises at
2		least one of a valve, a pneumatic actuator, an electric actuator, a hydraulic actuator, and a
3		micro-electric actuator.
1	12.	(Withdrawn) The apparatus of claim 10 wherein the flow-control means comprises means
2		for adjusting a system element to change the resistance to flow.
1	13.	(Withdrawn) The apparatus of claim 10 wherein the pump comprises a centrifugal pump.
1	14.	(Withdrawn) The apparatus of claim 7 further comprising means for delivering the fluid
2		flow to means for performing a supercritical process.
1	15.	(Withdrawn) An apparatus for control of a fluid flow, comprising:
2		a pump;
3		a sensor for measuring a pump performance parameter; and
4		a controller for adjusting operation of the pump to control a fluid flow in response
5		to the pump performance parameter.
1	16.	(Withdrawn) The apparatus of claim 15 wherein the pump performance parameter
2		comprises at least one of a pump speed, voltage, electric current, and electric power.

2		<u>a.</u> means for performing a supercritical process;					
3		bmeans for measuring a pump performance parameter; and					
4		c. means for adjusting operation of a pump to control a fluid flow in response					
5		to the pump performance parameter.					
1	18.	(Amended) The system of claim 19 17 wherein the object is a semiconductor wafer for					
2		forming integrated circuits.					
1	19.	(Amended) The system of claim 19 17 wherein the means for performing a supercritical					
2		process comprises a processing chamber and means for circulating at least one of a					
3		gaseous, liquid, supercritical and near-supercritical fluid within the processing chamber.					
1	20.	(Amended) The system of claim 21 19 wherein the means for circulating is a means for					
2 .		circulating a the fluid comprisinges carbon dioxide.					
	0.1	(A. 1.1) (C. 1.1) (A. 2.2.20 colored at least one of galvents, as galvents and					
1	21.	(Amended) The system of claim 22 20 wherein at least one of solvents, co-solvents and surfactants are contained in the carbon dioxide.					
2		surfactants are contained in the carbon dioxide.					
1	22.	(Amended) The system of claim 19 17 wherein the pump performance parameter					
2	22.	comprises at least one of a pump speed, voltage, electric current, and electric power.					
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1	23.	(Amended) The system of claim 19 17 further comprising means for delivering the fluid					
2		flow to the means for performing a supercritical process.					
1	24.	(Withdrawn) A method of control of a fluid flow, comprising the steps of:					
2		a. measuring a pump performance parameter; and					
3		b. adjusting a fluid flow in response to the pump performance parameter.					
1	25.	(Withdrawn) The method of claim 26 wherein the pump operational parameter comprises					
2		at least one of a pump speed, voltage, electric current, and electric power.					

(Amended) A system for supercritical processing of an object, comprising:

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1	26.	(Withdrawn) A method of eliminating flow meter contamination in semiconductor wafe					
2		processing with a fluid, comprising the steps of:					
3		a.	measuring a pump operational parameter; and				
4		b.	adjusting operation of a pump to control a fluid flow in response to the pump				
5		•	operational parameter.				
1	27.	(With	drawn) A method of control of a fluid flow, comprising the steps of:				
2			measuring a pump performance parameter;				
3			comparing a measured pump performance parameter to a predetermined target				
4		pump	performance parameter; and				
5			adjusting a fluid flow in response to a difference in the measured pump				
6		perfor	rmance parameter and the predetermined target pump performance parameter.				
1	28.	(Origi	inal) A method of control of a fluid flow in a supercritical processing system,				
2		compi	rising the steps of:				
3		a.	defining a system curve including a point of operation;				
4		b.	using the system curve to define at least one of a predetermined pump speed,				
5			voltage, electric current, and electric power;				
6		c.	measuring performance of a pump to obtain at least one of a measured pump				
7			speed, voltage, electric current, and electric power;				
8		d.	comparing the at least one of a measured pump speed, voltage, electric current,				
9			and electric power to the at least one of a predetermined pump speed, voltage,				
10			electric current, and electric power;				
11		e.	adjusting operation of a pump to control a fluid flow in response to a difference in				
12			the at least one of a measured pump speed, voltage, electric current, and electric				
13			power and the at least one of a predetermined pump speed, voltage, electric				
14			current, and electric power.				
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